



BIGGER CALLING

# **Research Fellow**

Department/Unit	Australian Regenerative Medicine Institute
Faculty/Division	Faculty of Medicine Nursing and Health Sciences
Classification	Level A
Work location	Clayton campus
Date document created or updated	April 2018

# **Organisational Context**

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

Established through a joint venture between Monash University and the Victorian Government, the **Australian Regenerative Medicine Institute (ARMI)** builds on the University's existing strengths in biomedical research, and supports the critical infrastructure required to deliver the next generation of discoveries in regenerative medicine.

ARMI is located at one of the world's largest regenerative medicine and stem cell research centres, at the Clayton Campus. Its scientists are focused on unravelling the basic mechanisms of the regenerative process, enabling doctors to prevent, halt and reverse damage to vital organs due to disease, injury or genetic conditions.

**ARMI's Mission** is to address the unanswered questions with a multi-centre, cross disciplinary and highly focused approach, for the development of innovative clinical protocols as well as the pursuit of rapid commercial transfer of its technologies related to regenerative medicine. A core element of the ARMI is the creating and supporting the scientific leaders of tomorrow through the Future Scientific Leaders Program based on the model at the world-renowned European Molecular Biology Laboratories (EMBL) established throughout Europe. The program facilitates collaboration between the scientific leaders of today and providing young scientists with the freedom to pursue discovery-based research and position them to become the scientific leaders of tomorrow.

The Australian Regenerative Medicine Institute currently has 15 research groups, and a total of 270 researchers, students and support staff from 21 different countries. Its location on the Monash University campus offers a highly stimulating biomedical research environment allowing Institute researchers to work closely with other university research organisations including the Monash Institute for Medical Engineering (MIME) and Biomedical Discovery Institute (BDI) and CSIRO, one of Australia's leading multi-disciplinary research institutions. The vision promoted at ARMI is to exploit and connect the multi-disciplinary of its groups, aligning their complementary capacities around key research pipelines; Heart and muscle development and regeneration, Immunity and Regeneration, Stem cells, Cancer and Regeneration and Neural regeneration.

# **Position Purpose**

A Level A research-only academic is expected to contribute towards the research effort of ARMI and to develop her/his research expertise through the pursuit of defined projects relevant to the particular field of research. The McGlinn Group uses the developing limb bud and axial skeleton to understand genetic hierarchies governing patterning mechanisms.

The reiterative use of key signalling pathways across multiple organs has meant that the limb, with its advantages of ease of manipulation and lack of requirement for embryonic survival, has provided fundamental contributions to our understanding of broader developmental processes.

More recently, it has become clear that a comprehensive understanding of these processes requires integration of all levels of gene regulation, including both protein-coding and non-protein coding mechanisms.

For this reason, we have pioneered a novel approach to investigate the role of microRNAs in development.

We aim to build a more complete molecular road-map of how the size, shape and number of bones form within the early vertebrate embryo

Reporting Line: The position reports to the Lab Head of the Marcelle Group

Supervisory Responsibilities: Not applicable

Financial Delegation: Not applicable

Budget Responsibilities: Not applicable

## **Key Responsibilities**

Specific duties required of a Level A research-only academic may include:

- 1. The conduct of research under limited supervision either as a member of a team or, where appropriate, independently and the production or contribution to the production of conference and seminar papers and publications from that research
- 2. Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise
- 3. Limited administrative functions primarily connected with the area of research of the academic
- 4. Development of a limited amount of research-related material for teaching or other purposes with appropriate guidance from other staff
- 5. Occasional contributions to teaching in relation to her/his research project(s)
- 6. Experimental design and operation of advanced laboratory and technical equipment or conduct of advanced research procedures
- 7. Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental, school and/or faculty meetings and/or membership of a limited number of committees
- 8. Advice within the field of the staff member's research to postgraduate students
- 9. The conduct of research under limited supervision and with input from members of the project team which includes three PhD students
- 10. Liaison with members of the project team, external collaborators and researchers in the Australian Regenerative Medicine Institute

## **Key Selection Criteria**

#### **Education/Qualifications**

- 1. The appointee will have:
  - A Doctorate Degree in the field of molecular biology, biochemistry or a related area

#### **Knowledge and Skills**

- 2. Proficiency with routine laboratory techniques, use/maintenance of common apparatus and storage and handling of hazardous materials
- 3. Good organisational, time management and record keeping skills
- 4. Ability to meet project timelines and deadlines
- 5. Experience in report writing and publishing
- 6. Demonstrated ability to work within a team environment as well as independently
- 7. Proficiency in the use of software packages (e.g. Microsoft Office)
- 8. Research interest in the adult stem cell field
- 9. Experience with use of mouse models and culture of primary cells

10. Proficiency with use of microarrays and/or deep sequencing approaches plus associated bioinformatics experience

## **Other Job Related Information**

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which taking of leave may be restricted

#### Legal compliance

Ensure you are aware of and adhere to legislation and university policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.